



PROJECT INFORMATION MEETING

I-81 OVER US ROUTE 11, NORFOLK SOUTHERN RAILWAY & MIDDLE FORK HOLSTON RIVER BRIDGE REPLACEMENT PROJECT

SMYTH COUNTY/ CITY OF ATKINS, BRISTOL, VIRGINIA

State Project #s 0081-086-742, P-101, B-659; 0081-086-818, B-663
Contract ID: C0097555DB102

Jeffrey Powell, P.E – Asst. District S&B Engineer, Bristol
Suril Shah, P.E, DBIA – APD Project Manager - POC

June 12, 2018

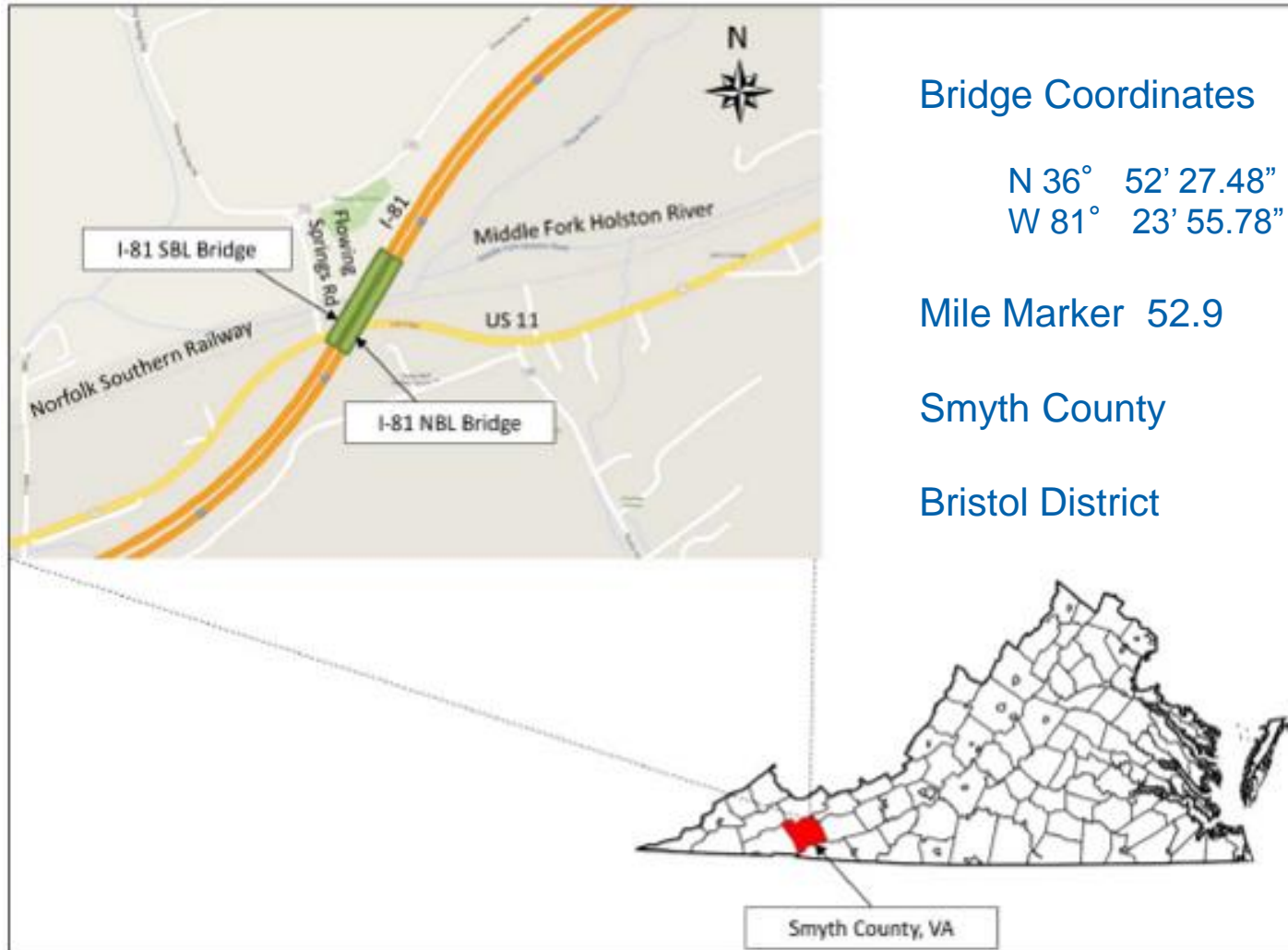
Agenda

- **Project Overview**
- **RFQ Summary**
- **Questions / Answers**

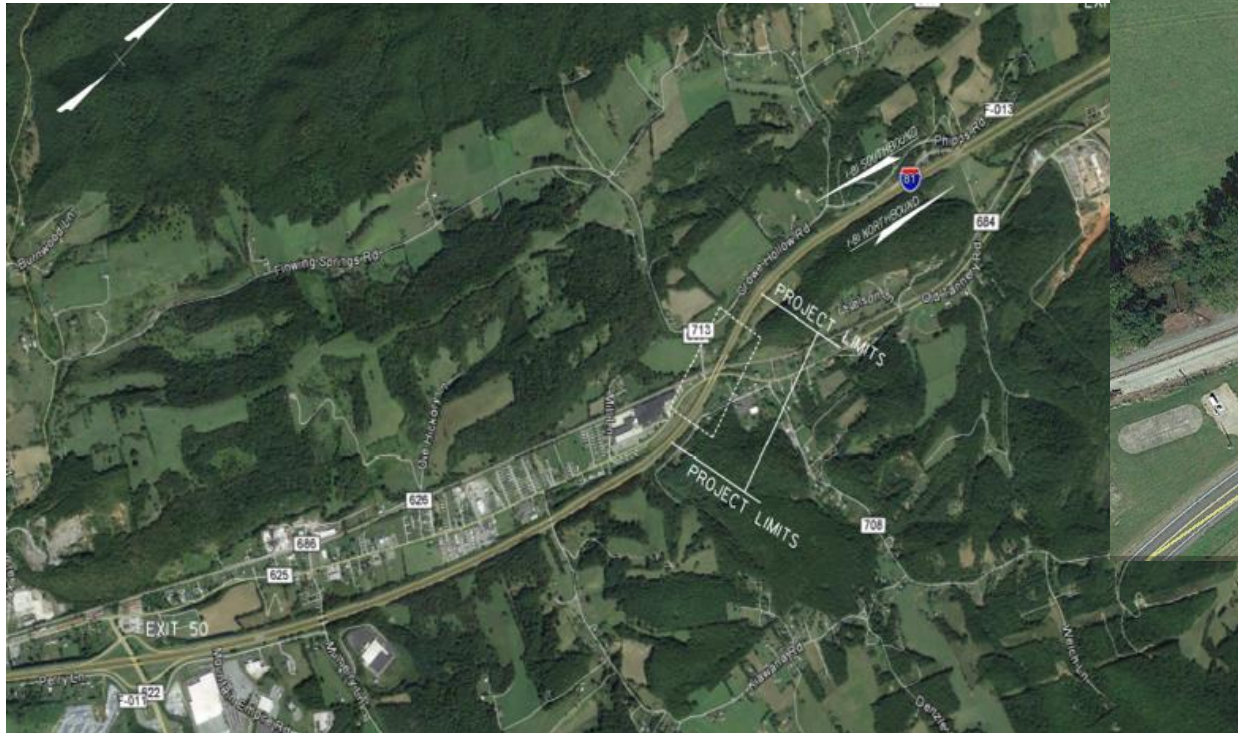
Project Purpose

- To improve safety by replacing the existing structurally deficient I-81 NBL structure and I-81 SBL structures which are in poor condition
- To improve operations by replacing the existing structures which have substandard vertical clearances over US Route 11

Project Location



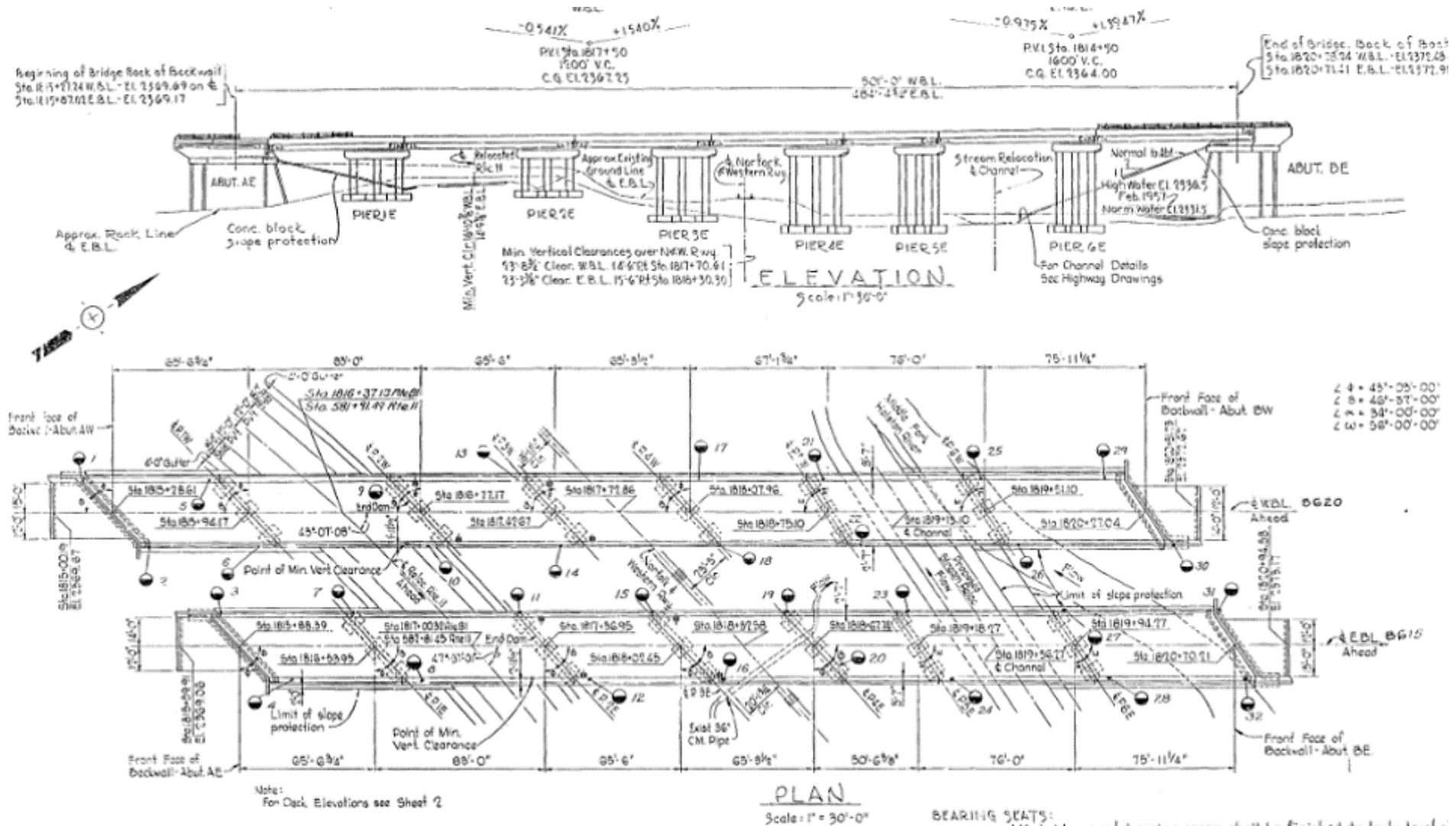
Project Location (Aerial)



Existing I-81 Bridges over Route 11, NS Railroad & Middle Fork Holston River



Existing Bridges Plan



Condition of Existing Bridges (Northbound)

NB Structure

- Built – 1964
- Seven simple spans, steel beams with concrete deck, structure is 484'-0" long
- Skew is 43 degrees +/-
- Structure carries two 12' lanes in each direction with 4' +/- shoulders

Structurally Deficient (SD)

Inspection Ratings

- Deck: 4 (Poor)
- Super: 5 (Fair)
- Sub: 5 (Fair)
- Channel: 7 (Good)

Sufficiency rating = 58.9



Condition of Existing Bridge (NB) - April 2017



Photograph No. 6
Typical Patches in the Deck Overlay of NB Bridge



Photograph No. 9
Deck Spalling with Exposed Rebar along the Joint at NB Bridge Pier 5



PHOTO #9
Spalled area exposing reinforcing steel in curb in Span 4.



PHOTO #12
Drain pipe broken and separated at Pier 2 on left side.

Condition of Existing Bridge (NB) - April 2017



PHOTO #14

Corrosion and section loss on bearing device for Beam 1 in Span 3 at Pier 2.



PHOTO #15

Corrosion and section loss on bottom flange of Beam 1 in Span 3 at Pier 2



PHOTO #23

Vertical Clearance sign at Route 11 North.



PHOTO #19

Spalled area exposing reinforcing steel in Pier 4 cap.

Condition of Existing Bridges (Southbound) - April' 16

SB Structure

- Built – 1964
- Seven simple spans, steel beams with concrete deck, structure is 484501'-0" long
- Skew is 43 degrees +/-
- Two 12' lanes in each direction with 3' shoulders

Structural Condition

Fair Inspection ratings

- Deck: 5 (Fair)
- Super: 5 (Fair)
- Sub: 5 (Fair)
- Channel: 7 (Good)

Sufficiency rating = 62.2



Condition of Existing Bridge (SB) - April 2016



PHOTO #1

Approach elevation looking from Abutment A to Abutment B.



PHOTO #6

Spall exposing reinforcing steel on Span 2 soffit.



PHOTO #16

Corrosion and section loss on Beam 5 bearing device in Span 7 at Pier 6.



PHOTO #18

Corrosion and section loss on Beam 5 bottom flange in Span 4 at Pier 4.

Condition of Existing Bridge (SB) – April 2016



PHOTO #8
Spall on end of deck soffit at Pier 4.



PHOTO #9
Spall on end of deck soffit at Pier 6.



PHOTO #14
Drain pipe broken and separated in Span 4 at Pier 3.



PHOTO #22
Spall on Pier 6 cap.

Traffic

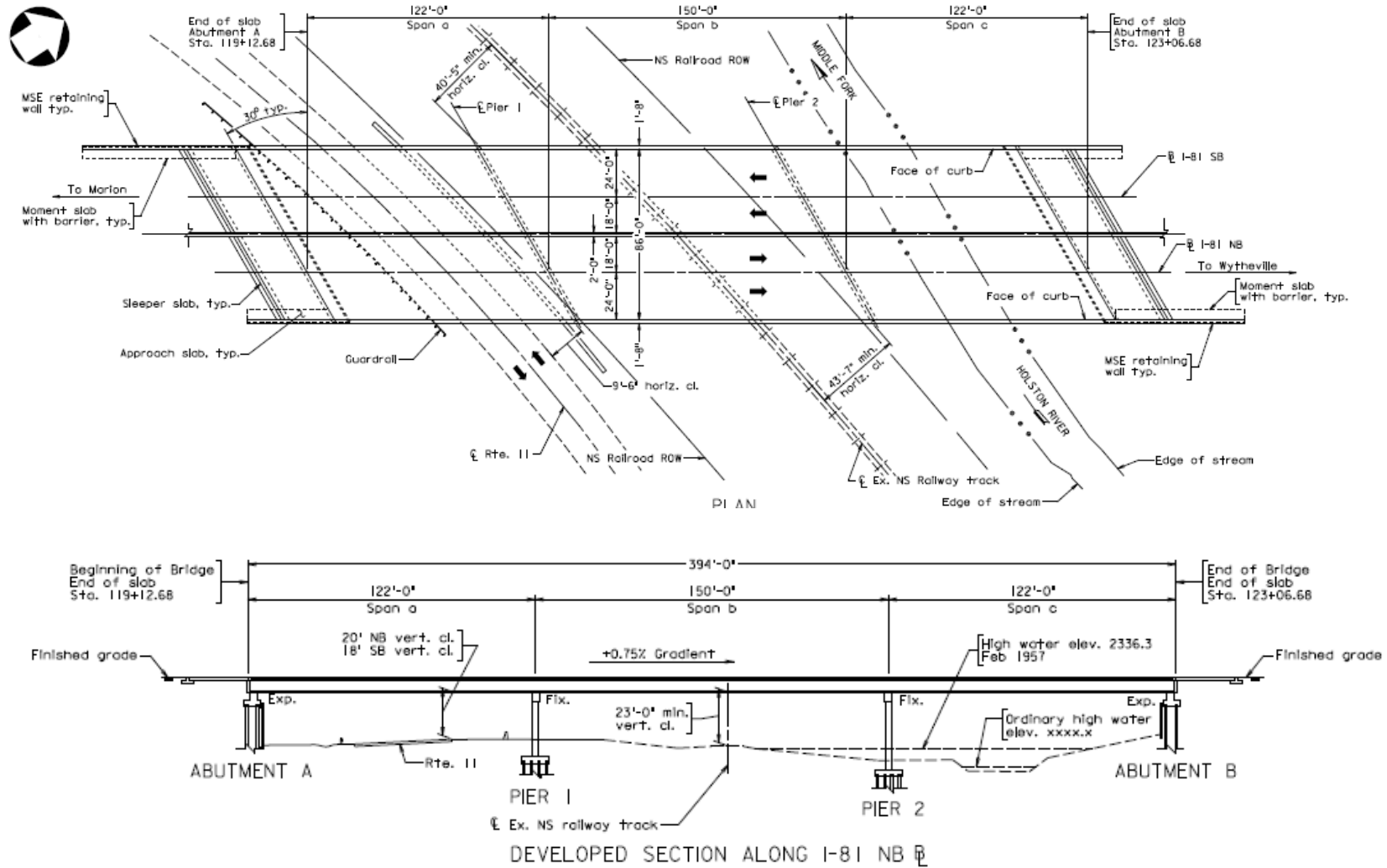
I-81

Present ADT: (2016)	30,768
Design Year ADT: (2045)	45,000
Truck Percentage:	20%

US Route 11

Present AADT:	2600 with 2% truck
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RFQ Concept



CONCEPTUAL PLANS
THESE PLANS NOT TO BE USED
FOR CONSTRUCTION

Project Status

Environment

- Noise Study – Not required, Type III project
- Cultural Resources – Clear, no-effect
- NEPA Document – Categorical Exclusion dated May 2018

Railroad Agreement

- Preliminary coordination ongoing

Federal Aviation Authority (FAA) Approval

- Obtained Temp. Crane Operation approval

Posted Public Willingness

- No Request for Public Hearing received

Project Scope

The scope includes but is not limited to all work required to support the design and construction of:

- **Roadway**
- **Survey**
- **Structure and/ or Bridge**
- **Environmental**
- **Geotechnical**
- **Hydraulics**
- **Traffic Control Devices**
- **Transportation Management Plan**
- **Utilities**
- **Public Involvement/ Relations**
- **Quality Assurance and Quality Control**
- **Railroad coordination**
- **Construction Engineering and Inspection**
- **Project Management**

RFQ SUMMARY

- **VDOT POC**

Suril R. Shah, P.E, DBIA
Alternate Project Delivery Division
1401 East Broad Street
Richmond, Virginia 23219
Phone: (804) 225-3799
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E-mail: Suril.Shah@vdot.virginia.gov

- **Two-Phase Best Value Procurement**
- **Short-List 3 Highest Ranked Teams**
- **Estimated Contract Value - \$21,000,000**

Alternative Technical Concepts (ATCs)

- Code of Virginia (§ 33.2-209(B) has been amended to allow consideration of ATCs
- ATCs may be permitted and considered during the RFP phase of the Project
- Specific details will be included in the RFP
- VDOT's draft ATC Process and Procedures can be found at VDOT's Design-Build website: <http://www.virginiadot.org/business/design-build.asp>

Anticipated Schedule

(Section 2.5)

- RFQ Questions to VDOT 06/21/2018
- VDOT Response to Questions 06/29/2018
- SOQ Submission Date 07/12/2018
- Notification of Shortlist 08/17/2018
- Anticipated RFP Release Date 08/28/2018
- Anticipated Award Date 02/20/2019
- Final Completion May 2022

RFQ Information Package

(Section 2.8)

RFQ Conceptual Plans

- RFQ Conceptual Plans

As-Built Plans

- As Built Bridge Plans
- As Built Roadway Plans

NEPA Document - Categorical Exclusion

Notice of Willingness

FORM C-78 (ATTACHMENT 2.10)

Form C-78-RFQ

ATTACHMENT 2.10

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

RFQ NO. C00106665DB82
PROJECT NO.: 0064-965-264

ACKNOWLEDGEMENT OF RFQ, REVISION AND/OR ADDENDA

Acknowledgement shall be made of receipt of the Request for Qualifications (RFQ) and/or any and all revisions and/or addenda pertaining to the above designated project which are issued by the Department prior to the Statement of Qualifications (SOQ) submission date shown herein. Failure to include this acknowledgement in the SOQ may result in the rejection of your SOQ.

By signing this Attachment 2.10, the Offeror acknowledges receipt of the RFQ and/or following revisions and/or addenda to the RFQ for the above designated project which were issued under cover letter(s) of the date(s) shown hereon:

1. Cover letter of RFQ 04/21/2015
(Date)

2. Cover letter of _____
(Date)

3. Cover letter of _____
(Date)

SIGNATURE

DATE

PRINTED NAME

TITLE

- Monitor VDOT's Design-Build RFQ website for responses to RFQ questions and Addendums
<http://www.virginiadot.org/business/request-for-qualifications.asp>
- If VDOT issues an addendum, a revised C-78 form will be included with the addendum
- Sign, date and include the C-78 with SOQ

Contents of Statements of Qualifications (SOQ)

- **Letter of Submittal** **(Section 3.2)**
 - ✓ POC & Principal Officer, Corporate Structure, Lead Contractor and Lead Designer, Surety, Evidence of Prequalification, SCC & DPOR information, etc.
 - ✓ Commitment to achieving a 4% DBE participation goal

- **Offeror's Team Structure** **(Section 3.3)**
 - ✓ **Key Personnel (4)**
 - **Design Build Project Manager**
 - » Responsible for the overall Project design, construction, quality management and contract administration
 - **Design Manager**
 - » Responsible for coordinating the design of the Project and overseeing the QA/QC program for all design disciplines
 - **Quality Assurance Manager**
 - » Responsible for the QA inspection and testing of all materials used and work performed on the Project
 - » No contractual relationship with QC firm and no involvement in construction operations (to include QC inspection and testing)

Contents of Statements of Qualifications (SOQ)

- **Key Personnel (cont..)** **(Section 3.3)**
 - **Construction Manager**
 - » Responsible for managing the construction process, to include all Quality Control (QC) activities
 - » Required to be on the Project site full time for the duration of construction operations
 - » Provide a list of current assignment and anticipated duration of each assignment
- ✓ **Organizational Chart and Narrative**
 - Clear separation between QA and QC staff

Contents of Statements of Qualifications (SOQ)

- **Experience of Offeror's Team**

(Section 3.4)

- ✓ Lead Contractor Work History Form
- ✓ Lead Designer Work History Form

Format and Appearance of the Key Personnel Resume Form and Work History Forms should not be modified **(Section 5.2.2)**

The team proposed by the Offeror shall remain intact throughout the procurement process and, if awarded the contract, the duration of the contract **(Section 11.1)**

- **Project Risks**

(Section 3.5)

- ✓ VDOT has identified 1 unique Risk critical to the success of the Project
- ✓ DB team to identify 2 additional unique Risks critical to the success of the Project
 - Why is the risk critical?
 - What is the potential impact?
 - Mitigation strategies?
 - VDOT's role?

Evaluation Criteria

(Section 4)

• Offeror's Team Structure	30%
• Experience of Offeror's Team	40%
• Project Risks	<u>30%</u>
Total	100%

Design Build Evaluation Guidelines, Revised May 2014 (On VDOT'S DB Website)

http://www.virginiadot.org/business/resources/DB_Evaluation_Guidelines_5-27-2014.pdf

Submittal Requirements

(Section 5)

- **Deadline for submitting a Statement of Qualifications is July 12 at 4:00PM**
- **1 original paper version with original signatures**
- **1 CD-ROM with entire SOQ**
- **10 abbreviated paper copies**
- **Statements of Qualifications shall be:**
 - ✓ **Securely bound**
 - ✓ **No more than 15 pages**
 - ✓ **Typed on one-side only**
 - ✓ **Separated by numbered tabs**
 - ✓ **Original shall include all required documentation**
 - ✓ **Written in Times New Roman with a 12 point font**

RFQ Questions (Section 6)

- All questions and request for clarifications shall be submitted in writing to the VDOT POC.
- Deadline for submittal is **June 21, 2018**
- Responses will be posted by **June 29, 2018**

Conflict of Interest (Section 11.2)

The following firms have been determined to have a conflict of interest:

- **MBP**
- **Reynold Smith and Hill (RS&H), Inc. (RS&H)**
- **Johnson, Mirmiran and Thompson, Inc. (JMT)**
 - ✓ Hurt & Proffitt
 - ✓ ESP Associates, P.A
- **ECS Mid Atlantic**
 - ✓ Blue Ridge Drilling Inc.
 - ✓ H&B Survey & Mapping, LLC

Conflict of Interest (Section 11.2)

- **Each Offeror shall identify potential conflicts of interest**
 - **See Alternate Project Delivery Office Memorandum IIM-APD-2 dated December 27, 2012**
<http://www.viriniadot.org/business/resources/LocDes/IIM-APD-2.pdf>
- **If a potential conflict of interest or competitive advantage is identified, the Offeror shall submit in writing the pertinent information to VDOT's POC**
- **Embedded Employees within VDOT may pose a potential Conflict of Interest**

QUESTIONS ??

